

from the vehicle-mounted transponder or the handheld transponder responsive to the emitted radio frequency signals when the vehicle-mounted transponder or the handheld transponder is within the predetermined operable range of the respective long-range antenna or short-range antenna associated with the dispensing area; and

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processing equipment in communication with the at least one reader and the dispenser for associating customer identification data received at the dispensing area with a transaction at the dispenser, whereupon the transaction at the dispenser is charged to the customer according to the customer identification data, the processing equipment being operable to override the use of the vehicle-mounted transponder for charging the transaction to the customer and instead allowing use of the hand-held transponder for charging the transaction to the customer when both the vehicle-mounted transponder and hand-held transponder are within the respective predetermined operable long range and short range of the dispensing area.

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07  
10 ~~53~~. (Amended) The system of claim ~~50~~ wherein the predetermined operable long range comprises a vehicle fueling distance from the dispenser.

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11 ~~54~~. (Twice Amended) The system of claim ~~50~~ wherein the predetermined operable short range comprises a location within several inches from the short-range antenna in which the hand-held transponder may be waived by the customer.

#### REMARKS

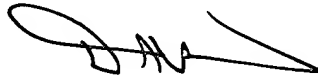
Claims 25, 27-32, 50, 51, and 53-57 have now been allowed. Claims 50, 53 and 54 have been amended.

The drawings have been amended to correct minor errors in accordance with Examiner's instructions. No new matter is contained.

Applicants hereby request the Examiner approve entry of the above amendment as it is submitted that the patent application is now in proper form to proceed to issue.

Should the Examiner have any questions or comments regarding the amendments, the Examiner is invited to telephone the undersigned at the number listed below.

Respectfully submitted,



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Registration No. 32,271

Dated: 5.24.01  
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d-887481.1

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231.	
on	<u>May 25, 2001</u>
	<u>David L. McCombs</u>

**RE-WRITTEN SPECIFICATION MARKED UP TO SHOW ALL CHANGES  
PURSUANT TO 37 C.F.R. 1.121(b)**

Page 10, paragraph 1:

Figs. 17A-[17N and 17Q]17O are flowcharts illustrating the customer identification primitive tasks of the system of Fig. 1.

Page 54, paragraph 3, beginning on line 16:

V. SYSTEM OPERATION AND USER INTERFACE

1.0 System Overview

The following is an overview of the operation and customer user interface of the CID system. A more detailed description of the operation and customer user interface is described further below with reference to Figs. 11A-11I, 12-16 and 17A-[17N and 17Q]17O. It is understood that the operation of the system 10 is controlled by programming instructions executed by the host computer 16, and by the reader 20 software described previously. The system 10 is integrated with a suitable fuel dispensing system that, in one embodiment, may be the Wayne Plus/2 or Wayne Plus/3 system available from the Wayne Division, Dresser Industries, Inc. of Austin, Texas, although other dispensing systems and software are contemplated. The system 10 may be integrated into the Nucleus control system also available from the Wayne Division, Dresser Industries, Inc., for example. The foregoing commercially available intelligent dispenser systems, or other commercially available dispenser arrangements, in cooperation with the CID system 10 of the present invention, integrate pump control, cash register, card processing and customer identification into a complete and operative system for a service station environment.

Page 58, paragraph 6, beginning on line 26:

Figs. 17A-[17N and 17Q]17O are flow charts describing the processes performed by the CID primitive, *i.e.*, the software routine written to manage performance of the customer identification functions.

Page 76, paragraph 1, beginning on line 2:

Figs. 17A-[17N and 17Q]17O are flowcharts describing the CID Primitive and the various commands it handles. Fig. 17A describes the overall command processes of the CID Primitive. The CID Primitive continually checks for commands in its CID Command Mailbox (CID Cmd Mbx) 1402 (step 1702). If there is no command, the CID Primitive proceeds with a CID list Cleanup (step 1704; see flowchart 1700I of Fig. 17I) where the CID List Data Structure (Table 4) is cleared of CID numbers no longer read by a pump or in use at a pump after the CID's delete time has passed. After completing the CID list cleanup, the CID Primitive again checks its CID Command Mailbox 1402 for commands (step 1702 of Fig. 17A).

Page 83, Paragraph 3, beginning on line 17:

Note Figs. 17N and [17Q]17O shows a flowchart 1700N of a "Begin CID Auth Task" 1950. The steps 1750N, 1752N, 1754N, 1756N, 1758N, 1760N, 1762N, 1764[Q]O, 1766[Q]O, 1768[Q]O, 1770[Q]O, 1772[Q]O, 1774[Q]O, 1776[Q]O, 1778[Q]O, and 1820[Q]O are similar to steps 1750, 1752, 1754, 1756, 1758, 1760, 1762, 1764, 1766, 1768, 1770, 1772, 1774, 1776, 1778, and 1820 of flowchart 1700D of Figs. 17D and 17E. Flowchart 1700N has the added step 1952 of determining whether the pump is in use. If so, then in step 1954, any CID read at an in-use pump is ignored.

RE-WRITTEN CLAIMS MARKED UP TO SHOW ALL CHANGES  
PURSUANT TO 37 C.F.R. 1.121(c)

50. (Twice Amended) A dispensing system with radio frequency customer identification capabilities for charging a customer for sales transacted by the customer, the system comprising:

a plurality of transponders containing customer identification data, the plurality of transponders comprising at least one vehicle-mounted transponder and at least one hand-held transponder;

a dispenser having at least one associated dispensing area at which a customer may conduct a dispensing transaction with the dispenser;

a plurality of antennas, each including at least one long-range antenna having a predetermined operable long range in the dispensing area and at least one short range antenna having a predetermined operable short range in the dispensing area of the dispenser, the long-range antenna being located relative to the dispenser for use in connection with the vehicle-mounted transponder, and the short-range antenna being located relative to the dispenser for use in connection with the hand-held transponder;

at least one reader operably connected to the antennas to emit radio frequency signals from the long range antenna within the predetermined operable long range of the dispensing area and from the short range antenna within the predetermined operable short range of the dispensing area, and to receive customer identification data from the vehicle-mounted transponder or the handheld transponder responsive to the emitted radio frequency signals when the vehicle-mounted transponder or the hand-held transponder is within the predetermined operable range of the respective long-range antenna or short-range antenna associated with the dispensing area; and

processing equipment in communication with the at least one reader and the dispenser for associating customer identification data received at the dispensing area with a transaction at the dispenser, whereupon the transaction at the dispenser is charged to the customer according to the customer identification data, the processing equipment being operable to override the use of the vehicle-mounted transponder for charging the transaction to the customer and instead allowing use of the hand-held transponder for charging the transaction to the customer when both the vehicle-mounted transponder and hand-held transponder are within the respective predetermined operable long range and short range of the dispensing area.

53. (Amended) The system of claim 50 wherein the [selected]predetermined operable long range comprises a vehicle fueling distance from the dispenser.

54. (Twice Amended) The system of claim 50 wherein the predetermined operable short range comprises a location within several inches from the short-range antenna in which the hand-held transponder may be waived by the customer.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Joseph A. Giordano et al.

Serial No.: 09/224,027

Filed: December 31, 1998

For: DISPENSING SYSTEM AND  
METHOD WITH RADIO  
FREQUENCY CUSTOMER  
IDENTIFICATION

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Group Art Unit: 2164

Examiner: Poinvil, F.

**DRAWING AMENDMENT**

BOX RCE  
Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Applicants submit copies of Figs. 17N and 17Q with the proposed amendments marked in red. Applicant respectfully requests approval.

Fig. 17 Q has been amended to read "Fig. 17O", as the letter "O" follows the letter "N" alphabetically.

Please amend Fig. 17N to eliminate references to Fig. 17Q and add references to Fig. 17O.

Applicant respectfully requests approval.

Respectfully submitted,

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d-887452.1

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on May 25, 2001  
Shawn Calder

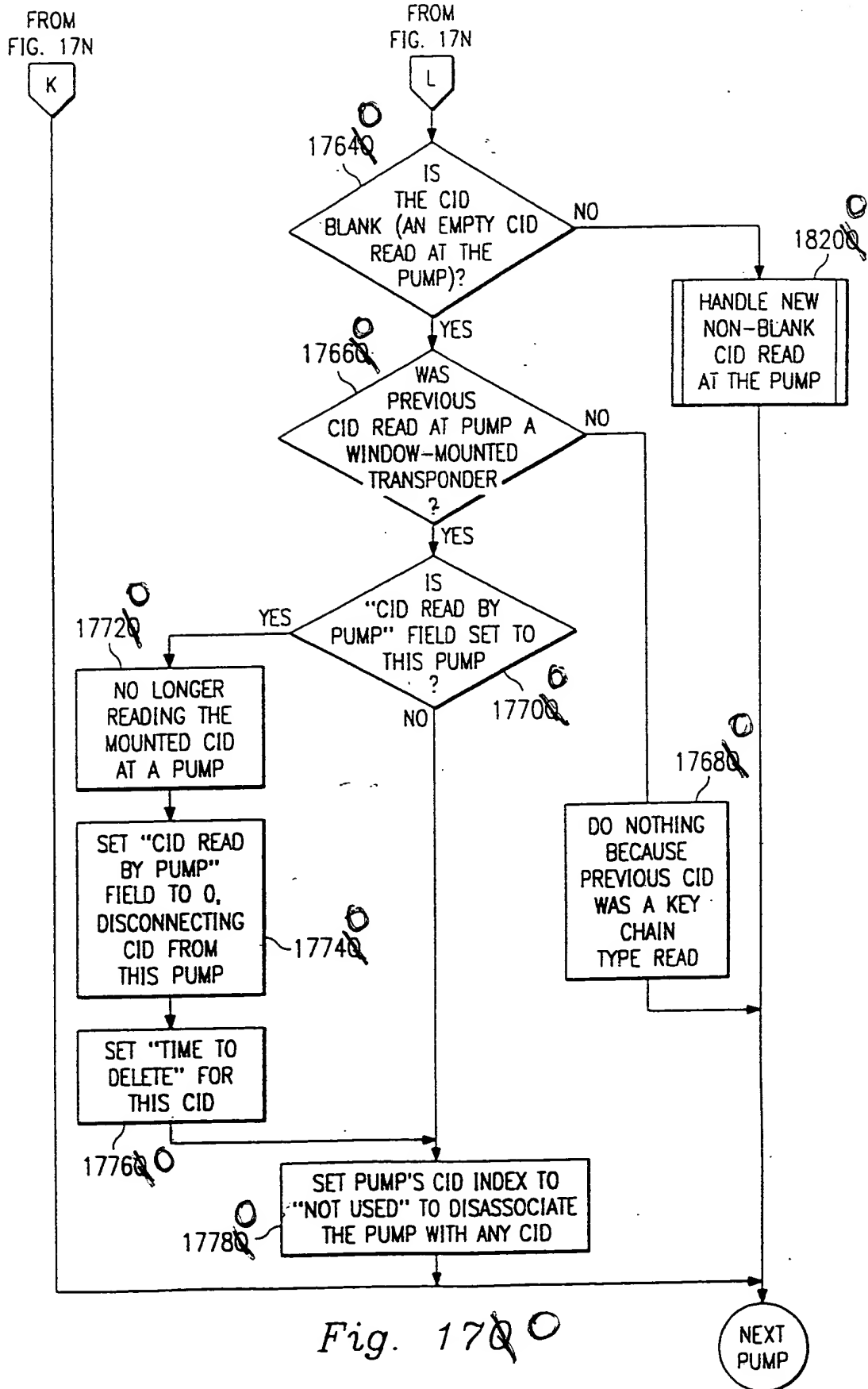


Fig. 1700

Fig. 17N

